

CLAIMS

1. An image generating system which generates an image of an aggregate object formed by a plurality of part objects, the
5 system comprising:

object determination means which determines part objects within a predetermined area in the aggregate object as objects to be changed in display form when an impact is applied to the aggregate object and the impacted position is included within
10 the predetermined area; and

image generation means which changes at least one of shape, color, position, rotation angle, direction, moving direction and moving speed of the part objects determined as objects to be changed and generates an image.

2. The image generating system as defined in claim 1,
wherein an area in which the display form of the part objects is changed is determined in accordance with at least
one of the magnitude of the impact, the direction of the impact
20 and the type of the aggregate object.

3. The image generating system as defined in claim 1,
wherein an area in which the display form of the part objects is changed is randomly determined.

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4. The image generating system as defined in claim 1, further comprising means which changes the display form of the part

objects which are spaced more apart from the impacted position with more delay.

5. The image generating system as defined in claim 1, further
5 comprising means which changes the part objects which have already been changed to a first display form into a second display form after a given time period has elapsed.

6. The image generating system as defined in claim 1,
10 wherein a plurality of image patterns used to generate images of the part objects after the change by the impact are previously provided; and

wherein the images of the part objects after the change by the impact are generated based on an image pattern selected from the plurality of image patterns.

7. The image generating system as defined in claim 1,
20 wherein the aggregate object is formed by assembling the part objects having different shapes without any gaps.

8. The image generating system as defined in claim 1,
25 wherein an image of the aggregate object is generated as an image of a single object before the impact is applied to the aggregate object, and the image is generated as an image of the aggregate object formed by the plurality of part objects after the impact.

9. A computer-readable program embodied on an information storage medium or in a carrier wave, storing information for operating an image generating system which generates an image of an aggregate object formed by a plurality of part objects,

5 the program comprising information necessary for implementing:

object determination means which determines part objects within a predetermined area in the aggregate object as objects to be changed in display form when an impact is applied to the aggregate object and the impacted position is included within

10 the predetermined area; and

image generation means which changes at least one of shape, color, position, rotation angle, direction, moving direction and moving speed of the part objects determined as objects to be changed and generates an image.

15 10. The computer-readable program embodied on an information storage medium or in a carrier wave as defined in claim 9, further comprising information necessary for determining an area in which the display form of the part objects is changed in accordance with at least one of the magnitude of the impact, 20 the direction of the impact and the type of the aggregate object.

25 11. The computer-readable program embodied on an information storage medium or in a carrier wave as defined in claim 9, further comprising information necessary for randomly determining an area in which the display form of the part objects is changed.

~~12.~~ The computer-readable program embodied on an information storage medium or in a carrier wave as defined in claim 9, further comprising information necessary for changing the display form of the part objects which are spaced more apart from the impacted position with more delay.
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~~13.~~ The computer-readable program embodied on an information storage medium or in a carrier wave as defined in claim 9, further comprising information necessary for changing the part objects which have already been changed to a first display form into a second display form after a given time period has elapsed.
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~~14.~~ The computer-readable program embodied on an information storage medium or in a carrier wave as defined in claim 9, further comprising information necessary for:
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previously providing a plurality of image patterns used to generate images of the part objects after the change by the impact; and

generating the images of the part objects after the change
20 by the impact based on an image pattern selected from the plurality of image patterns.

25 15. The computer-readable program embodied on an information storage medium or in a carrier wave as defined in claim 9, further comprising information necessary for forming the aggregate object by assembling the part objects having different shapes without any gaps.

16. The computer-readable program embodied on an information storage medium or in a carrier wave as defined in claim 9, further comprising information necessary for generating an image of the aggregate object as an image of a single object before the impact is applied to the aggregate object, and for generating the image as an image of the aggregate object formed by the plurality of the part objects after the impact.

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